US ERA ARCHIVE DOCUMENT

Data Validation Sheet

Formulation: Technical -

52.0% Cuprous oxide, 9.9% tributyltin methacrylate (as polymer). The solvent used was dimethyl formamide (DMF) and 38.1% inerts.

Chemical Name: See above formulation. (Also known as Polyflo 2018).

Validator: Alvaro A. Yamhure

Date of Validation: 10/4/81

Test Type: 96-hour LC50 for cold, fresh water fish.

Test I.D.: Test conducted by EG & G Bionomics and presented to M & T Chemicals, Inc. of N.J. Report # BW-81-7-953.

Citation: Sousa, Joseph V. July, 1981. Acute Toxicity of bioMet 304/CuO (2018) paint to Rainbow trout (Salmo gairdneri).

Validation Category: Acceptable (or core under present EEB rating system).

Results:

Time (hours)	Test Species	Test Results (ppm)	95% Confidence Limíts (ppm)	
48	Rainbow trout	.—	0.075 - 0.10	
72		0.080	0.074 - 0.088	
96	f1 11	0.056	0.048 - 0.066	

96-h. non-discernible effects level <0.018 ppm

Note: See attached copy of EPA's computer data validation sheet. EPA's results were within the same C.L. than the applicant's (0.0599 ppm).

Acute Toxicity of M & T Chemicals Inc. Polyflo 2018 to the Rainbow trout. (Report No. BN-81-7-953)

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**************************************	NUMBER EXPOSED	NUMBER DEAD	PERCENT DEAD 100	BINOMIAL PROB. (PERCENT) 0.09765625
0.1	10 10	10 10 3	100 30 10	0.09765625 17.1875 1.074219
0.056 0.046 0.032	10 10	0 0	0	0.09765625 0.09765625 0.09765625
0.024	10	0	0 0.075 CAN BE	
THE BINOMIA	L TEST SHOWS	THAT 0.046 AN	D 0.075 CAN BE IVE 95 PERCENT	

THE BINOMIAL TEST SHOWS THAT 0.046 AND 0.075 CAN BE USED AS STATISTICALLY SOUND CONSERVATIVE 95 PERCENT CONFIDENCE LIMITS, BECAUSE THE ACTUAL CONFIDENCE LEVEL ASSOCIATED WITH THESE LIMITS IS GREATER THAN 95 PERCENT.

AN APPROXIMATE LC50 FOR THIS SET OF DATA IS 0.05986185

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·		CALCULATED USING	AVED	AGE METHOD	TC TC
ì	新教	ATED HEING	THE MOVING AVER	AGE REDCENT CO	NFIDENCE LIMITS
,	DESILI TS	CALCULATED USTRO	1.050	95 PERCENT CO	0.06602958
٠	KESOC.	G	ECOU	0.05041979	0.0602930
``	SPAN	4 • 20 726	0.05752007	0.030413	
)	A :	0.1129726			•
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NO CONVERGENCE IN 25 ITERATIONS. THE PROBIT METHOD PROBABLY CANNOT BE USED WITH THIS SET OF DATA.